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Please find below and/or attached an Office communication concerning this application or proceeding.

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DETAILED ACTION

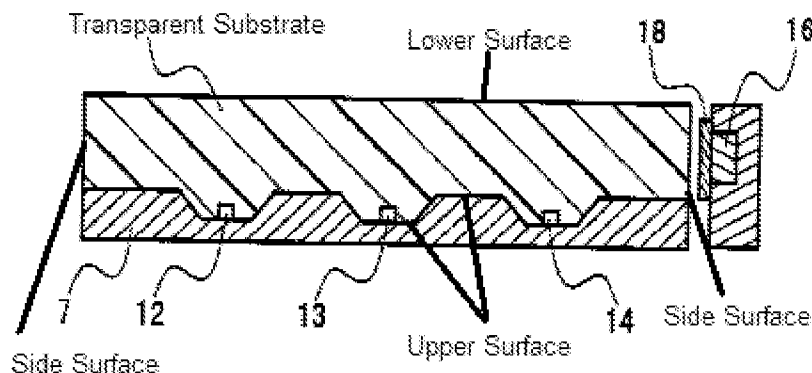
1. In an amendment dated, August 4th, 2008, the Applicant traversed the rejections of claims 1, 7-8, 12-14, 16-18, 20-21 and 29-42. Currently claims 1, 7-8, 12-14, 16-18, 20-21 and 29-42 are pending.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 7-8, 12-14, 16-18, 20-21 and 29-42 have been considered but are not persuasive.

3. On pages 7-8 of the Remarks, the Applicants argue that neither Tamura nor Yuyama disclose that the plurality of light emitting devices are disposed on a transparent substrate having an upper surface that contacts the light emitting devices, a lower surface distal from the light emitting devices and a plurality of side surfaces, each of the side surfaces being substantially perpendicular to the upper surface.

4. The Examiner must strongly disagree. In the hopes of clearing up any confusion figure 3b has been annotated to directly point to the corresponding portions of the transparent substrate that correspond to the claim limitations, see below.

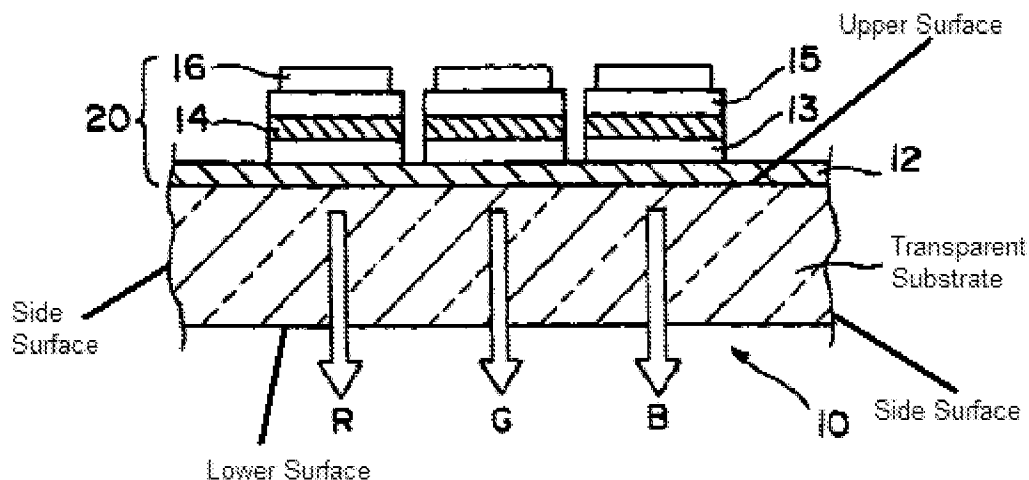


As seen it seems quite clear that Tamura discloses the all of the surfaces described in the claim. Additionally the light emitting devices (12-14 in the drawing) are clearly "disposed on" the substrate.

Applicants' arguments on pages 8-10 merely repeat the above discussed arguments.

5. On page 11 of the Remarks, the Applicants argue that Henmi does not disclose the same limitations discussed above.

6. The Examiner must again strongly disagree. Figure 3 of Henmi will be annotated to expressly show the different sides of the transparent substrate and how they are shown in the drawing, see below.



As seen it seems quite clear that Henmi discloses the all of the surfaces described in the claim. Additionally the light emitting devices (12-14 in the drawing) are clearly "formed on" a surface of the substrate. The remaining limitation, as detailed in

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the previous action, is clearly disclosed by Yuyama by showing a photodetector disposed on a surface opposite the light emitting devices.

7. The remaining arguments on pages 11-16 of the Remarks, are merely a rehashing of the already discussed arguments. As shown above Henmi and Tamura very clearly disclose a transparent substrate which satisfies all of the limitations of the current claims. As such the rejections of the claims are seen as sufficient and are thus maintained.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 1, 7-8, 13-14, 16-17, 20, 22 and 26-27 are rejected under 35 U.S.C.

103(a) as being unpatentable over Tamura et al. (US 2002/0130326) in view of Yuyama et al. (US 6,069,676).

With respect to claim 1, Tamura discloses, an array, comprising:

a plurality of light emitting devices (12-14 in fig. 3a,b) disposed on a transparent substrate (10 in fig. 3b), the transparent substrate having an upper surface (bottom of 10 in fig. 3b) that contacts the light emitting devices, a lower surface distal from the light emitting devices (top of 10 in fig. 3b) and a plurality of side surfaces (right side of 10 in fig. 3b), each of the side surfaces being substantially perpendicular to the upper surface (clear from fig. 3b); and

at least one photodetector (15-17 in fig. 3a/b) that detects light emitted through the substrate from the light emitting devices (para. 45).

Tamura does not expressly disclose that the at least one photodetector is arranged on the lower surface of the transparent substrate.

Yuyama discloses, an array, comprising:

a plurality of light emitting devices (2a-c in fig. 11) disposed under a transparent substrate (4 in fig. 11); and

at least one photodetector (10 in fig. 11) arranged on an opposite surface of the transparent substrate (clear from fig. 11) for detecting light emitted through the substrate from the light emitting devices.

Yuyama and Tamura are analogous art because they are both from the same field of endeavor namely, detecting light emitted by LEDs and compensating the driving of the LEDs based on the detected light.

At the time of the invention it would have been obvious to one of ordinary skill in the art to locate the photosensors of Tamura on the lower surface (top of 10 in fig. 3b) of the transparent substrate of Tamura, as taught by Yuyama.

The motivation for doing so would have been to avoid obstructing the exiting light (Yuyama; col. 6, lines 32-35).

With respect to claim 7, Tamura and Yuyama disclose, the array of claim 1 (see above).

The above embodiment of Tamura fails to disclose locating a photodetector over outer periphery edges of the upper surface.

Tamura further discloses in an alternative embodiment, locating a photodetector (9 in fig. 2a/b) over outer periphery edges of the upper surface (10 in fig. 2b).

At the time of the invention it would have been obvious to one of ordinary skill in the art to combine the alternative embodiment of Tamura teaching of upper surface photodetectors with the already combined first embodiment of Tamura and Yuyama, which teaches lower surface photodetectors.

The motivation for doing so would have been to achieve a more accurate feedback detection signal.

With respect to claim 8, Tamura and Yuyama disclose, the array of claim 1 (see above).

Tamura further discloses, a feedback circuit (5 in fig. 1) that measures a brightness level for each of the plurality of light emitting devices and varies a voltage applied to individual ones of the light emitting device to maintain a brightness level of each of the light emitting devices at a substantially constant level (paras. 12-13).

It should be noted that Yuyama additionally discloses, a feedback circuit (11a-c in fig. 5) that measures a brightness level for each of the plurality of light emitting devices and varies a voltage applied to individual ones of the light emitting device to maintain a brightness level of each of the light emitting devices at a substantially constant level (col. 3, lines 46-54; for example).

With respect to claim 13, Tamura and Yuyama disclose, the array of claim 1 (see above).

Tamura further discloses, a display (col. 1, lines 6-8) comprising an array of light emitting devices.

With respect to claim 14, Tamura discloses, a method for forming an array, comprising:

forming a plurality of light emitting devices (12-14 in fig. 3a/b) disposed on a transparent substrate (10 in fig. 3b), said transparent substrate having an upper surface (bottom of 10 in fig. 3b) contacting the light emitting devices, a lower surface distal from the light emitting devices (top of 10 in fig. 3b) and at least one side surface (right side of 10 in fig. 3b) substantially perpendicular to said upper surface of the substrate; and

forming a photodetector (15-17 in fig. 3a/b) that detects light emitted through the substrate from the light emitting devices (para. 45).

Tamura does not expressly disclose that the at least one photodetector is arranged on the lower surface of the transparent substrate.

Yuyama discloses, a method for forming an array, comprising:

forming a plurality of light emitting devices (2a-c in fig. 11) disposed under a transparent substrate (4 in fig. 11); and

forming at least one photodetector (10 in fig. 11) arranged on an opposite surface of the transparent substrate (clear from fig. 11) for detecting light emitted through the substrate from the light emitting devices.

At the time of the invention it would have been obvious to one of ordinary skill in the art to locate the photosensors of Tamura on the lower surface (top of 10 in fig. 3b) of the transparent substrate of Tamura, as taught by Yuyama.

The motivation for doing so would have been to avoid obstructing the exiting light (Yuyama; col. 6, lines 32-35).

With respect to claim 16, Tamura and Yuyama disclose, the method of claim 14 (see above).

Tamura further discloses, forming the photodetector on the side surface of the substrate (clear from fig. 3b).

With respect to claim 17, Tamura and Yuyama disclose, the method of claim 14 (see above).

Tamura further discloses, wherein the photodetector includes a plurality of photodetectors (clear from fig. 3a).

It should be additionally noted that Yuyama also discloses, a plurality of photodetectors (fig. 8; for example).

With respect to claim 20, claim 20 is seen as sufficiently equivalent to claim 8. As such claim 20 is rejected on the same merits shown above in claim 8.

With respect to claim 22, Tamura discloses, a method for maintaining a substantially constant brightness in a plurality of light emitting devices (12-14 in fig. 3a/b) disposed over an upper surface of a transparent substrate (10 in fig. 3b) in an array, comprising:

measuring light emitted from each of the light emitting devices (12-14 in fig. 3a/b; para. 12) by a photodetector (15-17 in fig. 3a/b); and

varying the voltage level applied to each of the light emitting devices to maintain a substantially constant brightness level of light emitted from the light emitting devices (col. 2, lines 26-28; para. 40).

Tamura does not expressly disclose that the photodetector is arranged on the lower surface of the transparent substrate.

Yuyama discloses, a method for maintaining a substantially constant brightness in a plurality of light emitting devices, comprising:

measuring light emitted from each of the light emitting devices (2a-c in fig. 11) by a photodetector (10 in fig. 11) formed on a lower surface of a transparent substrate (4 in fig. 11),

varying the voltage level applied to each light emitting device to maintain a constant brightness level (col. 3, lines 46-54; for example).

At the time of the invention it would have been obvious to one of ordinary skill in the art to locate the photosensors of Tamura on the lower surface (top of 10 in fig. 3b) of the transparent substrate of Tamura, as taught by Yuyama.

The motivation for doing so would have been to avoid obstructing the exiting light (Yuyama; col. 6, lines 32-35).

With respect to claim 26, Tamura discloses, the method of claim 22 (see above).

The above embodiment of Tamura fails to disclose locating a photodetector over outer periphery edges of the upper surface.

Tamura further discloses in an alternative embodiment, locating a photodetector (9 in fig. 2a/b) over outer periphery edges of the upper surface (10 in fig. 2b).

At the time of the invention it would have been obvious to one of ordinary skill in the art to combine the alternative embodiment of Tamura teaching of upper surface photodetectors with the already combined first embodiment of Tamura and Yuyama, which teaches lower surface photodetectors.

The motivation for doing so would have been to achieve a more accurate feedback detection signal.

With respect to claim 27, Tamura and Yuyama disclose, the method of claim 22 (see above).

Tamura further discloses, wherein varying the voltage level applied to each of the light emitting devices further comprises generating a compensation factor for each of the light emitting devices (para. 40) and applying the compensation factor to a voltage applied to the corresponding light emitting device (para. 40).

10. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tamura et al. (US 2002/0130326) in view of Yuyama et al. (US 6,069,676) and further in view of Cok (US 7,026,597).

With respect to claim 18, Tamura and Yuyama discloses, the method of claim 17 (see above).

Tamura further discloses, that photodetectors are formed on the side surfaces (18 in fig. 3b).

Neither Yuyama nor Tamura expressly disclose, that the photo detectors are formed on each side surface.

Cok discloses, forming photodetectors on each edge of a display (20 in fig. 5).

Cok, Yuyama and Tamura are analogous art because they are from the same field of endeavor namely, placement of photodetectors within a display.

At the time of the invention it would have been obvious to one of ordinary skill in the art to include photodetectors along each side as taught by Cok in the display of Yuyama and Tamura.

The motivation for doing so would have been improved illumination detection (Cok; col. 1, lines 65-67).

11. Claims 12 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tamura et al. (US 2002/0130326) in view of Yuyama et al. (US 6,069,676) and further in view of Yamazaki et al. (US 6,424,326).

With respect to claim 12, Tamura and Yuyama disclose, the array of claim 8 (see above).

Tamura further discloses, wherein the feedback circuit (5 in fig. 1) includes a compensation factor generator (5 in fig. 1) for generating a compensation factor for each of the plurality of light emitting devices (para. 40).

Neither Yuyama nor Tamura expressly disclose, a memory array for storing the compensation factor for each of the plurality of light emitting devices.

Yamazaki discloses, a display detecting brightness (fig. 1) and a memory array (204 in fig. 6) for storing a compensation factor for each of the plurality of light emitting devices (col. 12, lines 21-55).

Yamazaki, Yuyama and Tamura are analogous art because they are all directed to a similar problem solving area, namely correcting uneven display luminance.

At the time of the invention it would have been obvious to one of ordinary skill in the art to store the correction factors generated by Yuyama and Tamura in a memory array as taught by Yamazaki.

The motivation for doing so would have been to store an ideal luminance to compare the current state of the display against, thus achieving a more uniform and ideal luminance (Yamazaki; col. 12, lines 28-44).

With respect to claim 21, as shown above Tamura and Yuyama disclose claim 14. The further limitations of claim 21 are identical to those of claim 12. Therefore claim 21 is rejected on the same merits shown above in claim 12.

12. Claims 29-31 and 33-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henmi et al. (US 7,154,492) in view of Yuyama et al. (US 6,069,676).

With respect to claim 29, Henmi discloses, an array (fig. 12, for example), comprising:

a plurality of light emitting devices (20 in fig. 3-4) formed (clear from fig. 3) on a surface of a transparent substrate (11 in fig. 3-4) the transparent substrate having an upper surface (bottom of 11 in fig. 4 and top of 11 in fig. 3) that contacts the light emitting device (clear in figs. 3-4), a lower surface distal from the light emitting device

(opposite of the upper surface defined above) and a plurality of side surfaces (edges of 11 in figs. 3-4); and

at least one photodetector (23 in fig. 4) arranged on a surface of the transparent substrate for detecting light emitted from the light emitting devices (clear from fig. 4).

Henmi does not expressly disclose, wherein the photodetector is arranged on an opposite surface of the transparent substrate.

Yuyama discloses, an array, comprising:

a plurality of light emitting devices (2a-c in fig. 11) disposed under a transparent substrate (4 in fig. 11); and

at least one photodetector (10 in fig. 11) arranged on an opposite surface of the transparent substrate (clear from fig. 11) for detecting light emitted through the substrate from the light emitting devices.

Yuyama and Tamura are analogous art because they are both from the same field of endeavor namely, detecting light emitted by LEDs and compensating the driving of the LEDs based on the detected light.

At the time of the invention it would have been obvious to one of ordinary skill in the art to locate one of the photosensors of Henmi on the opposite surface (top of 10 in fig. 4) of the transparent substrate of Henmi, as taught by Yuyama.

The motivation for doing so would have been to avoid obstructing the exiting light (Yuyama; col. 6, lines 32-35).

With respect to claim 30, Henmi and Yuyama disclose, the array of claim 29 (see above).

Henmi further discloses, at least one additional photodetector (23b in fig. 11) formed over the outer periphery edges of the surface of the transparent substrate (clear from fig. 4).

With respect to claim 31, Henmi and Yuyama disclose, the array of claim 29 (see above).

Henmi further discloses, a feedback circuit (40-43 in fig. 5) that measures a brightness level for each of the plurality of light emitting devices, and varies a voltage applied to individual ones of the light emitting devices to maintain a brightness level of each of the light emitting devices at a substantially constant level (clear from fig. 9).

With respect to claim 33, Henmi discloses an array (fig. 12; for example), comprising a plurality of light emitting devices (20 in fig. 4) disposed over a substrate (11 in fig. 4) having an upper surface (bottom of 11 in fig. 4 and top of 11 in fig. 3) that contacts the light emitting device (clear in figs. 3-4), a lower surface distal from the light emitting device (opposite of the upper surface defined above) and a plurality of side surfaces (edges of 11 in figs. 3-4), and a photodetector (23 in fig. 4) that detects light emitted through the substrate from the light emitting device (clear from fig. 4), wherein at least one light emitting device comprises an OLED (col. 1, line 9).

Henmi does not expressly disclose wherein the photodetector is on the lower surface.

Yuyama discloses, an array, comprising:

a plurality of light emitting devices (2a-c in fig. 11) disposed under a transparent substrate (4 in fig. 11); and

at least one photodetector (10 in fig. 11) arranged on an opposite surface of the transparent substrate (clear from fig. 11) for detecting light emitted through the substrate from the light emitting devices.

Yuyama and Tamura are analogous art because they are both from the same field of endeavor namely, detecting light emitted by LEDs and compensating the driving of the LEDs based on the detected light.

At the time of the invention it would have been obvious to one of ordinary skill in the art to locate one of the photosensors of Henmi on the opposite surface (top of 10 in fig. 4) of the transparent substrate of Henmi, as taught by Yuyama.

The motivation for doing so would have been to avoid obstructing the exiting light (Yuyama; col. 6, lines 32-35).

With respect to claim 34, Henmi discloses, the array of claim 33 (see above), further comprising a feedback circuit (40-43 in fig. 5) that measures a brightness level for each of the plurality of light emitting devices, and varies a voltage applied to individual ones of the light emitting devices to maintain a brightness level of each of the light emitting devices at a substantially constant level (clear from fig. 9).

13. Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Henmi et al. (US 7,154,492) in view of Yuyama et al. (US 6,069,676) and further in view of Yamazaki et al. (US 6,424,326).

With respect to claim 32, Henmi and Yuyami disclose, the array of claim 31 (see above).

Henmi further discloses, wherein the feedback circuit includes a compensation factor generator (s15 in fig. 9) for generating a compensation factor for each of the plurality of light emitting devices (s16-s17 in fig. 9).

Neither Henmi nor Yuyami expressly disclose, a memory array for storing the compensation factor for each of the plurality of light-emitting devices.

Yamazaki discloses, a display detecting brightness (fig. 1) and a memory array (204 in fig. 6) for storing a compensation factor for each of the plurality of light emitting devices (col. 12, lines 21-55).

Yamazaki, Yuyama and Henmi are analogous art because they are all directed to a similar problem solving area, namely correcting uneven display luminance.

At the time of the invention it would have been obvious to one of ordinary skill in the art to store the correction factors generated by Yuyama and Henmi in a memory array as taught by Yamazaki.

The motivation for doing so would have been to store an ideal luminance to compare the current state of the display against, thus achieving a more uniform and ideal luminance (Yamazaki; col. 12, lines 28-44).

14. Claim 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over Henmi et al. (US 7,154,492) in view of Yuyama et al. (US 6,069,676) and further in view of Yamazaki et al. (US 6,424,326).

With respect to claim 35, Henmi discloses, the array of claim 34 (see above), wherein the feedback circuit includes a compensation factor generator (s15 in fig. 9) for

generating a compensation factor for each of the plurality of light emitting devices (s16-s17 in fig. 9).

Henmi does not expressly disclose, a memory array for storing the compensation factor for each of the plurality of light-emitting devices.

Yamazaki discloses, a display detecting brightness (fig. 1) and a memory array (204 in fig. 6) for storing a compensation factor for each of the plurality of light emitting devices (col. 12, lines 21-55).

Yamazaki and Henmi are analogous art because they are all directed to a similar problem solving area, namely correcting uneven display luminance.

At the time of the invention it would have been obvious to one of ordinary skill in the art to store the correction factors generated by Henmi in a memory array as taught by Yamazaki.

The motivation for doing so would have been to store an ideal luminance to compare the current state of the display against, thus achieving a more uniform and ideal luminance (Yamazaki; col. 12, lines 28-44).

15. Claims 36-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henmi et al. (US 7,154,492) in view of Yuyama et al. (US 6,069,676) and further in view of Hunter (US 6,356,029).

With respect to claim 36, Henmi discloses an array (fig. 12; for example), comprising a plurality of light emitting devices (20 in fig. 4) disposed over a substrate (11 in fig. 4) having an upper surface (bottom of 11 in fig. 4 and top of 11 in fig. 3) that contacts the light emitting device (clear in figs. 3-4), a lower surface distal from the light

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emitting device (opposite of the upper surface defined above) and a plurality of side surfaces (edges of 11 in figs. 3-4), and a photodetector (23 in fig. 4) that detects light emitted through the substrate from the light emitting device (clear from fig. 4), wherein at least one light emitting device comprises an OLED (col. 1, line 9).

Henmi does not expressly disclose, wherein the photodetector is on the lower surface, i.e., arranged on an opposite surface of the transparent substrate.

Yuyama discloses, an array, comprising:

a plurality of light emitting devices (2a-c in fig. 11) disposed under a transparent substrate (4 in fig. 11); and

at least one photodetector (10 in fig. 11) arranged on an opposite surface of the transparent substrate (clear from fig. 11) for detecting light emitted through the substrate from the light emitting devices.

Yuyama and Henmi are analogous art because they are both from the same field of endeavor namely, detecting light emitted by LEDs and compensating the driving of the LEDs based on the detected light.

At the time of the invention it would have been obvious to one of ordinary skill in the art to locate one of the photosensors of Henmi on the opposite surface (top of 10 in fig. 4) of the transparent substrate of Henmi, as taught by Yuyama.

The motivation for doing so would have been to avoid obstructing the exiting light (Yuyama; col. 6, lines 32-35).

Neither Yuyama nor Henmi expressly disclose a PLED.

Hunter discloses a PLED display suffering from ageing effects (col. 2, lines 31-37).

Hunter, Yuyama and Henmi are analogous art because they are both directed to solving the same problem namely, degradation of display quality over time in EL devices.

At the time of the invention it would have been obvious to replace the OLED devices of Henmi and Yuyama with the PLED elements of Hunter.

The motivation for doing so would have been the ease of fabrication of PLED elements (Hunter; col. 1, lines 23-26).

With respect to claim 37, Henmi, Yuyama and Hunter disclose, the array of claim 36 (see above).

Henmi further discloses, a feedback circuit (40-43 in fig. 5) that measures a brightness level for each of the plurality of light emitting devices, and varies a voltage applied to individual ones of the light emitting devices to maintain a brightness level of each of the light emitting devices at a substantially constant level (clear from fig. 9).

16. Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Henmi et al. (US 7,154,492) in view of Yuyama et al. (US 6,069,676) and further in view of Hunter (US 6,356,029) and Yamazaki et al. (US 6,424,326).

With respect to claim 38, Henmi and Hunter disclose, the array of claim 37 (see above).

Henmi further discloses, wherein the feedback circuit includes a compensation factor generator (s15 in fig. 9) for generating a compensation factor for each of the plurality of light emitting devices (s16-s17 in fig. 9).

Neither Hunter nor Henmi expressly disclose, a memory array for storing the compensation factor for each of the plurality of light-emitting devices.

Yamazaki discloses, a display detecting brightness (fig. 1) and a memory array (204 in fig. 6) for storing a compensation factor for each of the plurality of light emitting devices (col. 12, lines 21-55).

Yamazaki, Hunter and Henmi are analogous art because they are all directed to a similar problem solving area, namely correcting uneven display luminance.

At the time of the invention it would have been obvious to one of ordinary skill in the art to store the correction factors generated by Hunter and Henmi in a memory array as taught by Yamazaki.

The motivation for doing so would have been to store an ideal luminance to compare the current state of the display against, thus achieving a more uniform and ideal luminance (Yamazaki; col. 12, lines 28-44).

17. Claims 39-40 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Henmi et al. (US 7,154,492) in view of Yuyama et al. (US 6,069,676) and further in view of Bawendi et al. (US 6,501,091).

With respect to claim 39, Henmi discloses an array (fig. 12; for example), comprising a plurality of light emitting devices (20 in fig. 4) disposed over a substrate (11 in fig. 4) having an upper surface (bottom of 11 in fig. 4 and top of 11 in fig. 3) that

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contacts the light emitting device (clear in figs. 3-4), a lower surface distal from the light emitting device (opposite of the upper surface defined above) and a plurality of side surfaces (edges of 11 in figs. 3-4), and a photodetector (23 in fig. 4) that detects light emitted through the substrate from the light emitting device (clear from fig. 4), wherein at least one light emitting device comprises an OLED (col. 1, line 9).

Henmi does not expressly disclose, wherein the photodetector is on the lower surface, i.e., arranged on an opposite surface of the transparent substrate.

Yuyama discloses, an array, comprising:

a plurality of light emitting devices (2a-c in fig. 11) disposed under a transparent substrate (4 in fig. 11); and

at least one photodetector (10 in fig. 11) arranged on an opposite surface of the transparent substrate (clear from fig. 11) for detecting light emitted through the substrate from the light emitting devices.

Yuyama and Henmi are analogous art because they are both from the same field of endeavor namely, detecting light emitted by LEDs and compensating the driving of the LEDs based on the detected light.

At the time of the invention it would have been obvious to one of ordinary skill in the art to locate one of the photosensors of Henmi on the opposite surface (top of 10 in fig. 4) of the transparent substrate of Henmi, as taught by Yuyama.

The motivation for doing so would have been to avoid obstructing the exiting light (Yuyama; col. 6, lines 32-35).

Neither Yuyama nor Henmi expressly disclose a QDLED.

Henmi does not expressly disclose a QDLED.

Bawendi discloses a QDLED display (title).

Bawendi and Henmi are analogous art because they are both from the same field of endeavor namely, high quality LED based displays.

At the time of the invention it would have been obvious to replace the OLED devices of Henmi with the QDLED elements of Bawendi.

The motivation for doing so would have been the availability of additional color choices (Bawendi; col. 1, lines 35-53).

With respect to claim 40, Henmi and Bawendi disclose, the array of claim 39 (see above).

Henmi further discloses, a feedback circuit (40-43 in fig. 5) that measures a brightness level for each of the plurality of light emitting devices, and varies a voltage applied to individual ones of the light emitting devices to maintain a brightness level of each of the light emitting devices at a substantially constant level (clear from fig. 9).

With respect to claim 42, Henmi, when combined with Bawendi, discloses a display (Henmi; col. 1, line 7) comprising the array of claim 39 (see above).

18. Claim 41 is rejected under 35 U.S.C. 103(a) as being unpatentable over Henmi et al. (US 7,154,492) in view of Yuyama et al. (US 6,069,676) and further in view of Bawendi et al. (US 6,501,091) and Yamazaki et al. (US 6,424,326).

With respect to claim 41, Henmi and Bawendi disclose, the array of claim 40 (see above).

Henmi further discloses, wherein the feedback circuit includes a compensation factor generator (s15 in fig. 9) for generating a compensation factor for each of the plurality of light emitting devices (s16-s17 in fig. 9).

Neither Bawendi nor Henmi expressly disclose, a memory array for storing the compensation factor for each of the plurality of light-emitting devices.

Yamazaki discloses, a display detecting brightness (fig. 1) and a memory array (204 in fig. 6) for storing a compensation factor for each of the plurality of light emitting devices (col. 12, lines 21-55).

Yamazaki, Bawendi and Henmi are analogous art because they are all directed to a similar problem solving area, namely correcting uneven display luminance.

At the time of the invention it would have been obvious to one of ordinary skill in the art to store the correction factors generated by Bawendi and Henmi in a memory array as taught by Yamazaki.

The motivation for doing so would have been to store an ideal luminance to compare the current state of the display against, thus achieving a more uniform and ideal luminance (Yamazaki; col. 12, lines 28-44).

Conclusion

19. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to WILLIAM L. BODDIE whose telephone number is (571)272-0666. The examiner can normally be reached on Monday through Friday, 7:30 - 4:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/William L Boddie/
Examiner, Art Unit 2629
11/10/08

/Sumati Lefkowitz/
Supervisory Patent Examiner, Art Unit 2629